

SEQUENCE LISTING

<110> Matsui, Takeshi
Kisumi, Fumie
Kinoshita, Yoko

<120> NOVEL GENE PARTICIPATING IN EPIDERMAL
DIFFERENTIATION AND USE THEREOF

<130> 082368-010000US

<150> PCT/JP2005/03458

<151> 2005-03-02

<150> JP 2004-057559

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<160> 53

<170> PatentIn version 3.1

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Ser Asp Leu Ser Ser Leu Gln Lys Arg Ala Gly Gly Ala Asp Gln Phe	
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Ser Lys Pro Glu Ala Arg Gln Asp Leu Ser Ala Asp Ser Ser Lys Asn	
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Tyr Tyr Asn Asn Gln Gln Val Asn Pro Thr Tyr Asn Trp Gln Tyr Tyr	
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Thr Lys Thr Thr Ala Lys Ala Gly Val Thr Pro Ser Ser Ser Ser Ala	
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Ala Ser Ser Leu Gln Lys Arg Ala Gly Arg Ala Asp Gln Asn Tyr Asn
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Lys Thr Pro Ala Lys Gly Gly Val Ser Pro Ser Ser Ser Ala Ser Arg
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Val Gln Pro Gly Leu Leu Gln Trp Val Lys Phe Trp
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35 40 45

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Gln	Asn	Thr	Pro	Phe	Leu	Asn	Trp	Lys	Ala	Ile	Ile	Glu	Gly	Ala	Asp	
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			420					425					430			
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Tyr	Asn	Gln	His	Ala	Tyr	Pro	Thr	Ala	Tyr	Gly	Gly	Lys	Tyr	Ser	Val	
		435					440					445				
aag	acc	cct	gca	aag	ggg	gga	gtc	tca	cct	tct	tcc	tcg	gct	tcc	cgg	1569
Lys	Thr	Pro	Ala	Lys	Gly	Gly	Val	Ser	Pro	Ser	Ser	Ser	Ala	Ser	Arg	
	450					455					460					
gtg	caa	cct	ggc	ctg	ctg	cag	tgg	gtg	aag	ttt	tgg	tag	gcaatttctt			1618
Val	Gln	Pro	Gly	Leu	Leu	Gln	Trp	Val	Lys	Phe	Trp					
465					470					475						
gcaaccacca	ccgaggcccc	gaaaagcact	ggtcgtcagg	gagctcctcc	ccttggcccc											1678
cagcctgtgc	cagccctggc	ccggctgcca	cacctctggt	tcctaggctg	gggacccagc											1738
ttgtctctcc	ttgtttcttc	ccactgcact	gtgggtgcttc	agtggccacc	agcctcgtca											1798
catacaccag	catctttctg	tacctcctcc	ctttggtgac	ctgaagtcac	tgtgacagtt											1858
ctccaggaag	gaggagcttc	ctacttttga	gtttctctgt	ggaaataaaa	catgaatctt											1918
gtttccctaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa											1978
aaaa																1982

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 20 25 30
 Thr Asn Ile Gly Glu Ala Leu Gly His Gly Leu Gly Asp Ala Leu Ser
 35 40 45

Glu	Gly	Val	Gly	Lys	Ala	Ile	Gly	Lys	Glu	Ala	Gly	Gly	Ala	Ala	Gly	
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Ser	Lys	Val	Ser	Glu	Ala	Leu	Gly	Gln	Gly	Thr	Arg	Glu	Ala	Val	Gly	
65					70					75					80	
Thr	Gly	Val	Arg	Gln	Val	Pro	Gly	Phe	Gly	Ala	Ala	Asp	Ala	Leu	Gly	
				85					90					95		
Asn	Arg	Val	Gly	Glu	Ala	Ala	His	Ala	Leu	Gly	Asn	Thr	Gly	His	Glu	
			100					105					110			
Ile	Gly	Arg	Gln	Ala	Glu	Asp	Val	Ile	Arg	His	Gly	Ala	Asp	Ala	Val	
		115					120					125				
Arg	Gly	Ser	Trp	Gln	Gly	Val	Pro	Gly	His	Asn	Gly	Ala	Trp	Glu	Thr	
	130					135					140					
Ser	Gly	Gly	His	Gly	Ile	Phe	Gly	Ser	Gln	Gly	Gly	Leu	Gly	Gly	Gln	
145					150					155					160	
Gly	Gln	Gly	Asn	Pro	Gly	Gly	Leu	Gly	Thr	Pro	Trp	Val	His	Gly	Tyr	
				165					170					175		
Pro	Gly	Asn	Ser	Ala	Gly	Ser	Phe	Gly	Met	Asn	Pro	Gln	Gly	Ala	Pro	
			180					185					190			
Trp	Gly	Gln	Gly	Gly	Asn	Gly	Gly	Pro	Pro	Asn	Phe	Gly	Thr	Asn	Thr	
		195					200					205				
Gln	Gly	Ala	Val	Ala	Gln	Pro	Gly	Tyr	Gly	Ser	Val	Arg	Ala	Ser	Asn	
	210					215					220					
Gln	Asn	Glu	Gly	Cys	Thr	Asn	Pro	Pro	Pro	Ser	Gly	Ser	Gly	Gly	Gly	
225					230					235					240	
Ser	Ser	Asn	Ser	Gly	Gly	Gly	Ser	Gly	Ser	Gln	Ser	Gly	Ser	Ser	Gly	
				245					250					255		
Ser	Gly	Ser	Asn	Gly	Asp	Asn	Asn	Asn	Gly	Ser	Ser	Ser	Gly	Gly	Ser	
			260					265					270			
Ser	Ser	Gly	Ser	Ser	Ser	Gly	Gly	Ser	Ser	Gly	Gly	Ser	Ser	Gly	Gly	
		275					280					285				
Ser	Ser	Gly	Asn	Ser	Gly	Gly	Ser	Arg	Gly	Asp	Ser	Gly	Ser	Glu	Ser	
	290					295					300					
Ser	Trp	Gly	Ser	Ser	Thr	Gly	Ser	Ser	Ser	Gly	Asn	His	Gly	Gly	Ser	
305					310					315					320	
Gly	Gly	Gly	Asn	Gly	His	Lys	Pro	Gly	Cys	Glu	Lys	Pro	Gly	Asn	Glu	
				325					330					335		
Ala	Arg	Gly	Ser	Gly	Glu	Ser	Gly	Ile	Gln	Asn	Ser	Glu	Thr	Ser	Pro	
			340					345					350			
Gly	Met	Phe	Asn	Phe	Asp	Thr	Phe	Trp	Lys	Asn	Phe	Lys	Ser	Lys	Leu	
		355					360					365				
Gly	Phe	Ile	Asn	Trp	Asp	Ala	Ile	Asn	Lys	Asn	Gln	Val	Pro	Pro	Pro	

370	375	380
Ser Thr Arg Ala Leu Leu Tyr Phe Ser Arg	Leu Trp Glu Asp Phe Lys	
385	390	395 400
Gln Asn Thr Pro Phe Leu Asn Trp Lys Ala	Ile Ile Glu Gly Ala Asp	
	405	410 415
Ala Ser Ser Leu Gln Lys Arg Ala Gly Arg	Ala Asp Gln Asn Tyr Asn	
	420	425 430
Tyr Asn Gln His Ala Tyr Pro Thr Ala Tyr	Gly Gly Lys Tyr Ser Val	
	435	440 445
Lys Thr Pro Ala Lys Gly Gly Val Ser Pro	Ser Ser Ser Ala Ser Arg	
	450	455 460
Val Gln Pro Gly Leu Leu Gln Trp Val Lys	Phe Trp	
465	470	475

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21

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 <212> DNA
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<220>
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19

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25

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39

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23

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<212> DNA

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18

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<210> 38
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<400> 38
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<210> 39
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<210> 42
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<400> 42

atgaaaggcg tggtgaccga gg 22

<210> 43
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<220>
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<400> 43
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<210> 44
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<400> 44
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<400> 45
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<210> 46
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<220>
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<400> 46
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<210> 47
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<210> 53
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 <213> Mus musculus

<400> 53
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 20 25 30
 Gln Lys Arg Ala Gly Gly Ala Asp Gln Phe Ser Lys Pro Glu Ala Arg
 35 40 45
 Gln Asp Leu Ser Ala Asp Ser Ser Lys Asn Tyr Tyr Asn Asn Gln Gln
 50 55 60
 Val Asn Pro Thr Tyr Asn Trp Gln Tyr Tyr Thr Lys Thr Thr Ala Lys
 65 70 75 80
 Ala Gly Val Thr Pro Ser Ser Ser Ser Ala Ser Arg Ala Gln Pro Gly
 85 90 95
 Leu Leu Lys Trp Leu Lys Phe Trp
 100